

=====

Sequence Listing could not be accepted.

If you need help call the Patent Electronic Business Center at (866)  
217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: [year=2010; month=2; day=10; hr=18; min=0; sec=56; ms=862; ]

=====

\*\*\*\*\*

Reviewer Comments:

<210> 6

<211> 1310

<212> PRT

<213> Varicella zoster

<220>

<221> misc\_feature

<222> (99)..(99)

<223> The 'Xaa' at location 99 stands for Thr, or Met.

<220>

<221> misc\_feature

<222> (512)..(512)

<223> The 'Xaa' at location 512 stands for Ala, or Val.

<220>

<221> misc\_feature

<222> (1275)..(1275)

<223> The 'Xaa' at location 1275 stands for Ser, Leu, or Xaa.

The above <223> response describing the "Xaa" at location 1275 contains an error: "Xaa" cannot represent an "Xaa". "The 'Xaa' at location 1275 stands for Ser or Leu" would be correct.

\*\*\*\*\*

Application No: 10591787 Version No: 3.0

Input Set:

Output Set:

Started: 2010-01-28 17:10:23.171  
Finished: 2010-01-28 17:10:35.201  
Elapsed: 0 hr(s) 0 min(s) 12 sec(s) 30 ms  
Total Warnings: 5  
Total Errors: 0  
No. of SeqIDs Defined: 91  
Actual SeqID Count: 91

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (1)
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)

# SEQUENCE LISTING

<110> Nagaike, Kazuhiro  
Mori, Yasuko  
Gomi, Yasuyuki  
Takahashi, Michiaki  
Kouichi, Yamanishi

<120> Recombinant varicella-zoster virus

<130> 59150-8037

<140> 10591787

<141> 2010-01-28

<150> PCT/JP2005/003652

<151> 2005-03-05

<150> JP 2004-063277

<151> 2004-03-05

<160> 91

<170> PatentIn version 3.2

<210> 1

<211> 35

<212> DNA

<213> Artificial

<220>

<223> primer

<400> 1

tataactagt gcggccgctt acgaaaacgt gcatg

35

<210> 2

<211> 34

<212> DNA

<213> Artificial

<220>

<223> primer

<400> 2

cgcgacctgg tttattttac aaactccttt gtgg

34

<210> 3

<211> 34

<212> DNA

<213> Artificial

<220>

<223> primer

<400> 3

gcgcaccagg tctctgttta gaccttaaaa ttg 34

<210> 4

<211> 34

<212> DNA

<213> Artificial

<220>

<223> primer

<400> 4

tatagcggcc gcttttaatc tggttgtgga aatg 34

<210> 5

<211> 4226

<212> DNA

<213> Varicella zoster

<220>

<221> CDS

<222> (229)..(4158)

<223> Varicella zoster

<220>

<221> misc\_feature

<222> (99)..(99)

<223> The 'Xaa' at location 99 stands for Thr, or Met.

<220>

<221> misc\_feature

<222> (512)..(512)

<223> The 'Xaa' at location 512 stands for Ala, or Val.

<220>

<221> misc\_feature

<222> (1275)..(1275)

<223> The 'Xaa' at location 1275 stands for Ser, or Leu.

<400> 5

atactatggt ccatgaactt ccgcctcga gtctcgcca atcactacat cgtcttatca 60

ttaagaatat ttacacgggtg acgacacggg gaggaatat gcggtcgagg ggggggcaca 120

acacgtttta agtactgttg gaactccctc accaaccgca aycgcaatcc tttgaagget 180

gcgagagcgt ttggaaaact cgggtacgtc taaattcacc ccagygcg atg gat acg 237  
Met Asp Thr  
1

ccg ccg atg cag cgc tct aca ccc caa cgc gcg ggg tcg cct gat act 285  
Pro Pro Met Gln Arg Ser Thr Pro Gln Arg Ala Gly Ser Pro Asp Thr

ttg gag tta atg gac ctg ttg gac gcg gcc gcc gcg gcc gcc gaa cac	333
Leu Glu Leu Met Asp Leu Leu Asp Ala Ala Ala Ala Ala Glu His	
20 25 30 35	
agg gcc cgg gtg gtc acc tcg agt cag cct gac gat cta cta ttt gga	381
Arg Ala Arg Val Val Thr Ser Ser Gln Pro Asp Asp Leu Leu Phe Gly	
40 45 50	
gag aac ggg gtc atg gtg gga cgg gaa cat gag atc gtt tca att ccc	429
Glu Asn Gly Val Met Val Gly Arg Glu His Glu Ile Val Ser Ile Pro	
55 60 65	
tcc gta tcg gga ctt caa cca gaa ccc aga acg gaa gat gtt ggc gaa	477
Ser Val Ser Gly Leu Gln Pro Glu Pro Arg Thr Glu Asp Val Gly Glu	
70 75 80	
gag cta aca caa gac gac tac gta tgc gag gac ggt cag gat cta ayg	525
Glu Leu Thr Gln Asp Asp Tyr Val Cys Glu Asp Gly Gln Asp Leu Xaa	
85 90 95	
ggc tcg cct gta atc ccg ctg gcc gag gtc ttc cac acc cga ttc tcg	573
Gly Ser Pro Val Ile Pro Leu Ala Glu Val Phe His Thr Arg Phe Ser	
100 105 110 115	
gag gcc ggc gcg cga gaa cca aca gga gcc gat cgc tcc ctc gag aca	621
Glu Ala Gly Ala Arg Glu Pro Thr Gly Ala Asp Arg Ser Leu Glu Thr	
120 125 130	
gtc tct ctc gga acg aag ctt gct agg tct cca aaa cca ccg atg aac	669
Val Ser Leu Gly Thr Lys Leu Ala Arg Ser Pro Lys Pro Pro Met Asn	
135 140 145	
gat ggg gaa acg ggc aga ggt acg acc cct ccg ttc ccg cag gcc ttc	717
Asp Gly Glu Thr Gly Arg Gly Thr Thr Pro Pro Phe Pro Gln Ala Phe	
150 155 160	
tcc cct gta tcc ccc gcg tct cct gtt gga gac gcc gcc ggg aac gat	765
Ser Pro Val Ser Pro Ala Ser Pro Val Gly Asp Ala Ala Gly Asn Asp	
165 170 175	
caa cgg gaa gac cag cgg tct ata ccc cga caa acg acg aga gga aat	813
Gln Arg Glu Asp Gln Arg Ser Ile Pro Arg Gln Thr Thr Arg Gly Asn	
180 185 190 195	
tca cca ggt ttg ccg tcg gtg gtc cat cga gac aga caa act cag tcc	861
Ser Pro Gly Leu Pro Ser Val Val His Arg Asp Arg Gln Thr Gln Ser	
200 205 210	
atc tcg ggt aaa aag ccg ggc gat gag caa gcg ggt cat gcg cat gca	909
Ile Ser Gly Lys Lys Pro Gly Asp Glu Gln Ala Gly His Ala His Ala	
215 220 225	
tcg ggg gac gga gta gtt ctc cag aaa act caa cgg ccc gct cag gga	957
Ser Gly Asp Gly Val Val Leu Gln Lys Thr Gln Arg Pro Ala Gln Gly	
230 235 240	

aag agc ccg aag aaa aag act ttg aag gtt aag gtc cca ctc ccg gcg	1005
Lys Ser Pro Lys Lys Lys Thr Leu Lys Val Lys Val Pro Leu Pro Ala	
245 250 255	
cgg aaa ccc ggt gga cct gta ccc ggc ccg gtt gag caa ttg tac cac	1053
Arg Lys Pro Gly Gly Pro Val Pro Gly Pro Val Glu Gln Leu Tyr His	
260 265 270 275	
gtc ctt tcg gac agc gtt ccc gct aag ggg gca aag gcg gac ctg ccg	1101
Val Leu Ser Asp Ser Val Pro Ala Lys Gly Ala Lys Ala Asp Leu Pro	
280 285 290	
ttt gag acc gat gat acc cgc cca agg aaa cat gat gcc ccg ggt ata	1149
Phe Glu Thr Asp Asp Thr Arg Pro Arg Lys His Asp Ala Arg Gly Ile	
295 300 305	
aca cct cgc gtc cct gga cgt tcg tcg ggg ggc aaa cct aga gcg ttt	1197
Thr Pro Arg Val Pro Gly Arg Ser Ser Gly Gly Lys Pro Arg Ala Phe	
310 315 320	
ttg gcc ctg ccg gga aga tcc cac gca cca gac ccg att gag gat gac	1245
Leu Ala Leu Pro Gly Arg Ser His Ala Pro Asp Pro Ile Glu Asp Asp	
325 330 335	
agc ccg gtg gag aaa aag cca aag agt cgt gag ttt gtt tcg tct tca	1293
Ser Pro Val Glu Lys Lys Pro Lys Ser Arg Glu Phe Val Ser Ser Ser	
340 345 350 355	
tcc tct tcc tcg tcg tgg gga tcg tca tcg gag gat gaa gac gat gaa	1341
Ser Ser Ser Ser Ser Trp Gly Ser Ser Ser Glu Asp Glu Asp Asp Glu	
360 365 370	
ccc ccg cgc gtt tcg gtg gga agt gaa act aca ggc agc agg tcc gga	1389
Pro Arg Arg Val Ser Val Gly Ser Glu Thr Thr Gly Ser Arg Ser Gly	
375 380 385	
cgc gaa cac gcc cct tcc ccg tca aat tcg gat gat tcg gac tca aat	1437
Arg Glu His Ala Pro Ser Pro Ser Asn Ser Asp Asp Ser Asp Ser Asn	
390 395 400	
gat ggt ggg tcg acg aaa caa aat atc caa ccg gga tat cga tcc atc	1485
Asp Gly Gly Ser Thr Lys Gln Asn Ile Gln Pro Gly Tyr Arg Ser Ile	
405 410 415	
agc ggt ccc gat ccg agg att cgt aag acc aaa cgt ctt gcg ggg gaa	1533
Ser Gly Pro Asp Pro Arg Ile Arg Lys Thr Lys Arg Leu Ala Gly Glu	
420 425 430 435	
ccg ggg cgc cag aga cag aaa tca ttt tcc ctg ccg cga tcc aga acc	1581
Pro Gly Arg Gln Arg Gln Lys Ser Phe Ser Leu Pro Arg Ser Arg Thr	
440 445 450	
ccg ata att ccc ccg gtg tcg ggg ccg ctc atg atg ccc gac gga agc	1629
Pro Ile Ile Pro Pro Val Ser Gly Pro Leu Met Met Pro Asp Gly Ser	
455 460 465	
cct tgg ccc gga tcg gcg ccc ctc cca tcc aac agg gtg ccg ttt gga	1677

Pro Trp Pro Gly Ser Ala Pro Leu Pro Ser Asn Arg Val Arg Phe Gly	
470 475 480	
ccg tcc ggg gag acc aga gag ggt cac tgg gag gat gag gct gtg aga	1725
Pro Ser Gly Glu Thr Arg Glu Gly His Trp Glu Asp Glu Ala Val Arg	
485 490 495	
gcg gcg cgg gct cgt tac gag gcc tca act gaa ccc gyg ccg ctt tac	1773
Ala Ala Arg Ala Arg Tyr Glu Ala Ser Thr Glu Pro Xaa Pro Leu Tyr	
500 505 510 515	
gtg ccg gag ttg gga gat ccg gct aga cag tac cgc gcg ctg att aac	1821
Val Pro Glu Leu Gly Asp Pro Ala Arg Gln Tyr Arg Ala Leu Ile Asn	
520 525 530	
ctg atc tac tgt cca gac aga gac cct ata gca tgg ctc cag aac ccc	1869
Leu Ile Tyr Cys Pro Asp Arg Asp Pro Ile Ala Trp Leu Gln Asn Pro	
535 540 545	
aag ctg acc ggt gtc aac tcg gcc ctg aac cag ttc tac caa aag ctg	1917
Lys Leu Thr Gly Val Asn Ser Ala Leu Asn Gln Phe Tyr Gln Lys Leu	
550 555 560	
ttg cca ccg gga cgg gcg ggt acc gcc gtt acg ggg agc gta gcg tct	1965
Leu Pro Pro Gly Arg Ala Gly Thr Ala Val Thr Gly Ser Val Ala Ser	
565 570 575	
ccc gtt ccg cat gta ggc gaa gcc atg gcc acg ggg gag gcc ctc tgg	2013
Pro Val Pro His Val Gly Glu Ala Met Ala Thr Gly Glu Ala Leu Trp	
580 585 590 595	
gct ctc ccc cac gcg gcc gcg gcc gtg gct atg agc cgt cgg tac gac	2061
Ala Leu Pro His Ala Ala Ala Val Ala Met Ser Arg Arg Tyr Asp	
600 605 610	
cgg gcc caa aaa cac ttt atc cta cag agt ctc cgc aga gcc ttt gcc	2109
Arg Ala Gln Lys His Phe Ile Leu Gln Ser Leu Arg Arg Ala Phe Ala	
615 620 625	
ggc atg gca tac ccc gag gca acg gcc tcc agt ccg gcg gcg cgg atc	2157
Gly Met Ala Tyr Pro Glu Ala Thr Gly Ser Ser Pro Ala Ala Arg Ile	
630 635 640	
tcc cgc ggt cac cct tct cca aca acc ccg gcc aca cag act ccc gac	2205
Ser Arg Gly His Pro Ser Pro Thr Thr Pro Ala Thr Gln Thr Pro Asp	
645 650 655	
cct cag ccg tcg gcc gcc gcg cgc tct ctt tct gtg tgt cca ccg gat	2253
Pro Gln Pro Ser Ala Ala Ala Arg Ser Leu Ser Val Cys Pro Pro Asp	
660 665 670 675	
gat cgt tta cga act ccg cgc aag cgc aag tcc cag cca gtc gag agc	2301
Asp Arg Leu Arg Thr Pro Arg Lys Arg Lys Ser Gln Pro Val Glu Ser	
680 685 690	
aga agc ctc ctc gac aag att agg gag aca ccc gtc gcg gac gcc cgg	2349
Arg Ser Leu Leu Asp Lys Ile Arg Glu Thr Pro Val Ala Asp Ala Arg	

695	700	705	
gtt gca gac gat cat gtg gtt tcc aag gcc aag agg cgg gta tcc gag			2397
Val Ala Asp Asp His Val Val Ser Lys Ala Lys Arg Arg Val Ser Glu			
710	715	720	
ccc gtg acc atc acc tcg ggc cct gtg gtg gat ccc ccc gcc gta ata			2445
Pro Val Thr Ile Thr Ser Gly Pro Val Val Asp Pro Pro Ala Val Ile			
725	730	735	
acg atg cca ctt gac gga ccg gcc cca aac ggg gga ttt cgg cgt att			2493
Thr Met Pro Leu Asp Gly Pro Ala Pro Asn Gly Gly Phe Arg Arg Ile			
740	745	750	755
ccc cgg ggg gcc ctg cat acc ccg gtc ccg tcg gac cag gct cgc aag			2541
Pro Arg Gly Ala Leu His Thr Pro Val Pro Ser Asp Gln Ala Arg Lys			
760	765	770	
gcg tac tgt acc ccc gaa acc atc gcc cgt ctg gtc gac gac cca ttg			2589
Ala Tyr Cys Thr Pro Glu Thr Ile Ala Arg Leu Val Asp Asp Pro Leu			
775	780	785	
ttt ccc acg gcc tgg cgc cct gcg cta agc ttt gat ccc ggc gcc ttg			2637
Phe Pro Thr Ala Trp Arg Pro Ala Leu Ser Phe Asp Pro Gly Ala Leu			
790	795	800	
gcg gaa atc gcc gct cgg cgt ccg ggc gga gga gac cga cgg ttt ggt			2685
Ala Glu Ile Ala Ala Arg Arg Pro Gly Gly Gly Asp Arg Arg Phe Gly			
805	810	815	
cca ccc agc gga gtg gag gcg ctg cga cgg agg tgc gcc tgg atg cgg			2733
Pro Pro Ser Gly Val Glu Ala Leu Arg Arg Arg Cys Ala Trp Met Arg			
820	825	830	835
cag atc cca gac ccg gag gat gtg agg ctt ctg atc atc tac gat ccg			2781
Gln Ile Pro Asp Pro Glu Asp Val Arg Leu Leu Ile Ile Tyr Asp Pro			
840	845	850	
ttg ccc gga gag gac atc aac ggc ccc ctc gag agc acc ctc gcg aca			2829
Leu Pro Gly Glu Asp Ile Asn Gly Pro Leu Glu Ser Thr Leu Ala Thr			
855	860	865	
gat ccg gga ccg tca tgg agt cca tcc cga ggg gga ctg tct gtg gtc			2877
Asp Pro Gly Pro Ser Trp Ser Pro Ser Arg Gly Gly Leu Ser Val Val			
870	875	880	
ctg gca gcc ctg agt aac cgg ttg tgc ctg ccg agc act cat gcc tgg			2925
Leu Ala Ala Leu Ser Asn Arg Leu Cys Leu Pro Ser Thr His Ala Trp			
885	890	895	
gcc ggg aac tgg acc ggc ccg ccg gac gtg tcc gct ttg aac gcc cgg			2973
Ala Gly Asn Trp Thr Gly Pro Pro Asp Val Ser Ala Leu Asn Ala Arg			
900	905	910	915
ggc gtt tta tta ctg tcg acc cga gac ctg gcc ttt gcc ggg gcc gtc			3021
Gly Val Leu Leu Leu Ser Thr Arg Asp Leu Ala Phe Ala Gly Ala Val			
920	925	930	



gag tat cta ggc tcg cgg ttg gcc tct gcc cgg cgc cgg ttg ctg gtg	3069
Glu Tyr Leu Gly Ser Arg Leu Ala Ser Ala Arg Arg Arg Leu Leu Val	
935 940 945	
ttg gac gcg gtg gcc ctc gag agg tgg ccc ggg gat gga ccc gct ttg	3117
Leu Asp Ala Val Ala Leu Glu Arg Trp Pro Gly Asp Gly Pro Ala Leu	
950 955 960	
tct cag tat cac gtg tac gtc cgg gcc ccg gcg cga ccg gac gcc cag	3165
Ser Gln Tyr His Val Tyr Val Arg Ala Pro Ala Arg Pro Asp Ala Gln	
965 970 975	
gcc gtc gtc cga tgg cca gac tcg gcg gtc aca gaa gga ctc gcc cgg	3213
Ala Val Val Arg Trp Pro Asp Ser Ala Val Thr Glu Gly Leu Ala Arg	
980 985 990 995	
gcc gtg ttt gca tcg tcg cgc acc ttt ggg cca gcg agt ttt gct	3258
Ala Val Phe Ala Ser Ser Arg Thr Phe Gly Pro Ala Ser Phe Ala	
1000 1005 1010	
cgt atc gag act gcg ttt gcc aac ctg tac ccg ggc gaa caa ccc	3303
Arg Ile Glu Thr Ala Phe Ala Asn Leu Tyr Pro Gly Glu Gln Pro	
1015 1020 1025	
ctg tgt ttg tgc cgc ggt ggg aac gtc gca tac acc gtg tgt acc	3348
Leu Cys Leu Cys Arg Gly Gly Asn Val Ala Tyr Thr Val Cys Thr	
1030 1035 1040	
cgc gcg ggc ccc aag acc cgc gtc ccc ctg tcg ccc cgt gaa tac	3393
Arg Ala Gly Pro Lys Thr Arg Val Pro Leu Ser Pro Arg Glu Tyr	
1045 1050 1055	
cgg cag tac gtg ctg ccg ggt ttt gac ggt tgc aag gac ctc gcg	3438
Arg Gln Tyr Val Leu Pro Gly Phe Asp Gly Cys Lys Asp Leu Ala	
1060 1065 1070	
cga cag tct cgg ggt ctg ggg ctc ggg gca gcc gac ttt gtg gac	3483
Arg Gln Ser Arg Gly Leu Gly Leu Gly Ala Ala Asp Phe Val Asp	
1075 1080 1085	
gag gcg gca cat agc cac cgc gca gca aac cga tgg ggc ctg ggt	3528
Glu Ala Ala His Ser His Arg Ala Ala Asn Arg Trp Gly Leu Gly	
1090 1095 1100	
gcc gcg ctt cga ccc gtc ttc ctt ccc gag gga cgg aga ccg ggg	3573
Ala Ala Leu Arg Pro Val Phe Leu Pro Glu Gly Arg Arg Pro Gly	
1105 1110 1115	
gcc gcc ggg ccg gag gcc ggc gac gta ccc acc tgg gcg agg gtg	3618
Ala Ala Gly Pro Glu Ala Gly Asp Val Pro Thr Trp Ala Arg Val	
1120 1125 1130	
ttt tgc cgc cac gcc ctg ctg gaa ccc gac cct gcc gcg gaa cca	3663
Phe Cys Arg His Ala Leu Leu Glu Pro Asp Pro Ala Ala Glu Pro	
1135 1140 1145	

ctc gtg ctt cca ccc	gtg gcc ggt cgg tcg	gtg gcg ctg tat gcg	3708
Leu Val Leu Pro Pro	Val Ala Gly Arg Ser	Val Ala Leu Tyr Ala	
1150	1155	1160	
tcg gcg gac gag gct	cgg aat gcc ctc ccc	ccg att ccc aga gta	3753
Ser Ala Asp Glu Ala	Arg Asn Ala Leu Pro	Pro Ile Pro Arg Val	
1165	1170	1175	
atg tgg ccg ccc ggt	ttt ggg gcc gcg gag	acg gtg ttg gag ggg	3798
Met Trp Pro Pro Gly	Phe Gly Ala Ala Glu	Thr Val Leu Glu Gly	
1180	1185	1190	
agc gac gga aca cgg	ttc gcg ttc gga cac	cac ggg ggc tcg gaa	3843
Ser Asp Gly Thr Arg	Phe Ala Phe Gly His	His Gly Gly Ser Glu	
1195	1200	1205	
cgg ccg gca gaa acc	cag gcg ggg cga cag	cgg cgc acc gca gac	3888
Arg Pro Ala Glu Thr	Gln Ala Gly Arg Gln	Arg Arg Thr Ala Asp	
1210	1215	1220	
gac aga gaa cac gct	ttg gag ccg gac gat	tgg gag gtg ggg tgt	3933
Asp Arg Glu His Ala	Leu Glu Pro Asp Asp	Trp Glu Val Gly Cys	
1225	1230	1235	
gaa gac gcg tgg gac	agc gag gag ggg ggc	ggg gac gac ggg gac	3978
Glu Asp Ala Trp Asp	Ser Glu Glu Gly Gly	Gly Asp Asp Gly Asp	
1240	1245	1250	
gca ccg ggg tca tcc	ttt ggg gtg agc gtc	gtg tcg gtg gcc ccg	4023
Ala Pro Gly Ser Ser	Phe Gly Val Ser Val	Val Ser Val Al	